IEEE P802.11
Wireless LANs

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| Proposed Draft Texts of BSR Enhancement |
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Abstract

This submission proposes draft text of BSR enhancement in 11bn.

Revision History:

* Rev 0: Initial version of the document. Revised from 24/1995 based on comments from members and recommended rules from the Editor.

**Discucssion**

The document is as PDT for BSR enhancement and revised from 24/1995. Changes are

1. Spelling out BSRE (comment from Xiaofei)
2. Replacing subfield by field (Editor’s guide)

**Motions in 11bn**

* TGbn enables per-TID buffer size reporting of a larger queue in UHR.
	+ Note: It is an optional feature.
	+ Note: In the baseline, the maximum approximate per-TID queue size to report is 2,147,328 octets

**Reference Documents**

11-23/2007 Enhancement of BSR

11-24/0963 Enhancement of BSR follow-up (waiting for presentation in IEEE)

**Proposed Draft Texts (PDT)**

***TGbn editor: Please insert a new subclause as follows:***

**9.4.x.x** **UHR MAC Capabilities Information field**

The format of the UHR MAC Capabilities Information field is defined in [Figure 9-xxx (UHR MAC](file:///C%3A%5CUsers%5Cmtk02307%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5CU6N6KT34%5C11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V2.0.docx#bookmark2) [Capabilities Information field format)](file:///C%3A%5CUsers%5Cmtk02307%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5CU6N6KT34%5C11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V2.0.docx#bookmark3).

B0 B1 B7

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| BSR Enhancement Support | Reserved |

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Bits: 1 7

**Figure 9-xxx—UHR MAC Capabilities Information field format**

The fields of the UHR MAC Capabilities Information field are defined in [Table 9-xxx (Subfields of the](file:///C%3A%5CUsers%5Cmtk02307%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5CU6N6KT34%5C11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V1.0_Sindhu%20-%20LC_comment%20resolution.docx#bookmark4) [UHR MAC Capabilities Information field)](file:///C%3A%5CUsers%5Cmtk02307%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5CU6N6KT34%5C11-24-xxxx-00-00bn-MAC-PDT-%20Dynamic%20PS%20V1.0_Sindhu%20-%20LC_comment%20resolution.docx#bookmark5).

**Table 9-xxx—Subfields of the UHR MAC Capabilities Information field**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| BSR Enhancement Support | For an AP, indicates support of receiving a frame with a BSR Enhancement field. For a non-AP STA, indicates support for generating a frame with a BSR Enhancement field. | Set to 1 if the STA supports the BSR Enhancement field functionality.Set to 0 otherwise. |

***TGbn editor: Please change the subclause as follows:***

**37.4 Buffer status report enhancement operation**

A non-AP STA may deliver buffer status reports to assist its AP in allocationg UL MU resources (See 26.5.5 Buffer status report operation). When a non-AP STA owns a queue size of a TID which is larger than the maximum queue size able to be reported in the QoS Control field, the non-AP STA may send a BSR Enhancement field in a frame to report a larger queue size to the AP so that the AP can allocate accurate resources to the non-AP STA during the UL MU operation.

A UHR STA shall set the BSR Enhancement Support field in the UHR Capabilities element it transmits to 1 if dot11UHRBSREImplemented is true; otherwise, the UHR STA shall set the BSR Enhancement Support field to 0.

***TGbn editor: Please change the subclause as follows:***

Annex C

(normative)

## ASN.1 encoding of the MAC and PHY MIB

### C.3 MIB Detail

dot11UHRBSREImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute, when true, indicates that the station implementation is capable of supporting BSR enhancement operation."

DEFVAL { false }

::= { dot11UHRStationConfigEntry TBD }